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OBSERVATIONS OF THE *LEONIDS* AT THE LICK OBSERVATORY.

During the whole period of the apparition of the *Leonids*, stormy or cloudy weather prevailed at Mt. Hamilton, so that no observations of value could be made. The sky was, however, seen occasionally. On November 13th (astronomical reckoning) the sky cleared suddenly at 16<sup>h</sup> 30<sup>m</sup>, and a watch was kept until dawn. Ten *Leonids* were counted in one hour. Two of these were fine meteors, brighter than the average first-magnitude star. On November 15th, after 12<sup>h</sup>, the sky was seen at intervals through rifts in the dense fog which surrounded the summit of the mountain. One or two meteors, apparently *Leonids*, were seen, but it was evident that nothing like a considerable shower was in progress. On the succeeding nights there were dense fogs and heavy rains.

From these few observations, and others made at more favored places in the State, it would seem that the display of meteors in this part of the world was no greater in 1899 than in an ordinary year.

J. E. K.

## ASTRONOMICAL TELEGRAMS.

*(Translations.)*

CAMBRIDGE, Mass., Oct. 2, 1899.

(Received 7:15 P.M.)

To Professor J. E. KEELER, Lick Observatory:

Kiel cables that Comet *e*\* was observed by COHN at Königsberg on Oct. 1.2767 G. M. T.; in R. A. 16<sup>h</sup> 31<sup>m</sup> 0<sup>s</sup>.7; Decl. — 4° 39' 50".

(Signed) E. C. PICKERING.

Lick Observatory, Oct. 3, 1899.

To Harvard College Observatory: }  
To Students' Observatory, Berkeley: { (Sent 10:20 A.M.)

Comet Giacobini was observed by PERRINE on Oct. 2.6758 G. M. T.; in R. A. 16<sup>h</sup> 32<sup>m</sup> 59<sup>s</sup>.7; Decl. — 4° 12' 18".

Lick Observatory, Oct. 4, 1899.

To Students' Observatory, Berkeley: (Sent 10:25 A.M.)

Comet Giacobini was observed by PERRINE on Oct. 3.6378 G. M. T.; in R. A. 16<sup>h</sup> 34<sup>m</sup> 22<sup>s</sup>.1; Decl. — 3° 53' 35".

\*For some reason, the telegram announcing M. GIACOBINI's discovery did not reach the Lick Observatory. The first information of the comet's existence was obtained from the notice in the daily papers.

Lick Observatory, Oct. 4, 1899.

To Students' Observatory, Berkeley: (Sent 9:32 P.M.)

Comet Giacobini was observed by PERRINE on Oct. 4.6292 G. M. T.; in R. A.  $16^h 35^m 46^s.7$ ; Decl.  $- 3^\circ 34' 40''$ .

Lick Observatory, Oct. 21, 1899.

To Harvard College Observatory: (Sent 12:11 P. M.)

Elements and ephemeris [here omitted] of Comet *e* were computed by PERRINE as follows:—

$$\begin{array}{rcl} T = \text{Sept. } 15.04 & \text{G. M. T.} & \\ \omega = 10^\circ & 52' & \\ \Omega = 272 & 13 & \\ i = 76 & 55 & \\ q = 1.7854 & & \end{array} \left. \vphantom{\begin{array}{l} T \\ \omega \\ \Omega \\ i \\ q \end{array}} \right\} \text{Equinox of 1899.0}$$

#### ERRATA IN STAR CATALOGUES.

At various times I have noted the following errata in star catalogues:—

WEISSE'S BESSEL'S Zones  $+ 15^\circ$  to  $- 15^\circ$ :—

23<sup>h</sup> 964. For  $- 0^\circ 11' 4''.8$ , read  $- 0^\circ 10' 4''.8$ .

ARGELANDER'S *Durchmusterung*: (Bonner Beob. III).

Heading, page 169. For  $+ 6^\circ$ , read  $+ 7^\circ$ .

DM  $+ 10^\circ 26$  is indicated as given in Bonner Beob. VI.

It is DM  $+ 10^\circ 27$  that is given in this volume.

SCHUR'S Göttingen Catalogue:—

No. 16. For DM  $+ 9^\circ 38$ , read  $+ 9^\circ 8$ .

5602. "  $+ 6^\circ 5757$  "  $- 6^\circ 5757$

2121. "  $7^h$  "  $8^h$

BALL'S Vienna Ottakring Zones:—

Zone 74, DM  $- 6^\circ 5600$ . For  $20^h 44^m 18^s.78$ , read  $20^h 45^m 18^s.78$ .

Zones 4 and 110. "  $- 6^\circ 1554$ , "  $- 6^\circ 1564$

Zones 110 and 232. "  $- 6^\circ 1560$ , "  $- 6^\circ 1570$

ROMBERG'S Pulkowa Catalogue:—

No. 1803. For  $+ 32^\circ$  etc., read  $33^\circ$  etc.

No. 4120. "  $0 \Sigma 325$ , "  $0 \Sigma 525$ .

No. 4617. "  $\Sigma 2707$ , "  $\Sigma 2704$ .

DEICHMULLER'S Bonn A. G. Catalogue:—

No. 202. The proper motion in Right Ascension of this star is given  $+ 0^s.022$ . In AUWERS'S BRADLEY it is given  $+ 0^s.0022$ . The latter value is also given by ROMBERG, probably taken from AUWERS.

W. J. HUSSEY.

MT. HAMILTON, November 24, 1899.